BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION: KODIGEHALLI SUB DIVISION;
WARD NO-07 BYATARAYANAPURA
ABSTRACT

Job number : 007-18-000067
PO Date: PO295
Agency: M/S.KRIDL
Work type: Final Bill

Sl. No.	Description	Unit	Qty	Rate	Amount
	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20				
	Sum Name of work				
	Providing(UGD) works in ward NO.07	cum	13.50		
	Present Qty		**13.50**		
	Previous Qty		0.00		
	Total		13.50		
	BOQ Qty		13.5		
	Qty for payment		**13.50**	**590.42**	**7970.67**
	Cutting road surfaces for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the classifications for:. in the following classifications.Cutting Asphalt Road				
	Sum Name of work				
	Providing(UGD) works in ward NO.07	cum	117.99		
	Present Qty		**117.99**		
	Previous Qty		0.00		
	Total		117.99		
	BOQ Qty		117.99		
	Qty for payment		**117.99**	**894.00**	**105483.06**

A.E.E. N-D

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

	EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring,strutting, dewatering, etc. IN ALL KINDS OF SOIL MIXED WITH BOULDERS of 30 cms size, etc. for: Pipes of all dia. for depth upto 2.0 M in all types of soils				
	Sum Name of work				
	Providing(UGD) works in ward NO.07	cum	793.44		
	Present Qty		**793.44**		
	Previous Qty		0.00		
	Total		793.44		
	BOQ Qty		793.44		
	Qty for payment		**793.44**	**167.00**	**132504.48**
4	Supplying, lowering, laying, jointing, testing and commissioning of Glazed Stone Ware Pipes of following dia, conforming to IS 651:1992,IS 4127 with latest amendments, including conveying to work site, caulking with hemp dipped in tar and jointing with CM 1:1.5 using OPC, perfect linking and curing for 10 days and testing with water etc. with all lead, lifts and as per Technical Specifications. The cost to include the cost of all jointing materials, necessary survey works for laying of sewer lines etc. complete. The contractor will make own arrangements for procuring water for testing.				
	Sum Name of work				
	Providing(UGD) works in ward NO.07	cum	487.00		
	Present Qty		**487.00**		
	Previous Qty		0.00		
	Total		487.00		
	BOQ Qty		487		
	Qty for payment		**487.00**	**523.00**	**254701**
5	Labour charges for laying and jointing glazed stone ware pipes of 0.6m length and of specified dia., of tested quality conforming to IS 651 of 1965 including caulking with hemp yarn, jointing with CM 1:2 and testing with water etc. complete for: (Rate to include cost of jointing materials and transportation of pipes from store work site but excluding the cost of earth work) - Glazed Stone Ware pipe of 230 mm dia				
	Sum Name of work				
	Providing(UGD) works in ward NO.07	cum	487.00		
	Present Qty		**487.00**		
	Previous Qty		0.00		
	Total		487.00		
	BOQ Qty		487		
	Qty for payment		**487.00**	**108.00**	**52596**

Abhijith.N.D
AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

	Supplying lowering laying, jointing, testing and commissioning of following diameters glazed stone ware pipes, conforming to IS 651:1992, IS 4127 with latest amendments, of sizes including conveying to worksite and caulking with hemp dipped in tar and jointing with CM 1:1.5 using ordinary port land cement confirming to IS 12330, perfect linking and curing for 10 days and testing with water, with all lead and lifts, technical specifications, including cost of jointing materials, and all necessary survey works for laying of sewers etc.., complete (contractor will make his own arrangements for procuring water for testing). 230mm dia				
	Sun Name of work				
	Providing(UGD) works in ward NO.07	cum	487.00		
	Present Qty		**487.00**		
	Previous Qty		0.00		
	Total		487.00		
	BOQ Qty		487		
	Qty for payment		**487.00**	**474.88**	**231266.56**
	Providing house connection with excavation in all types of soils without damaging the other utilities and supplying and laying 25 mm OD MDPE pipe (PE80) manufactured in accordance with ISO 4427 - 1996 with minimum required strength of 8 Mpa, hydraulic design stress of 6.3 Mpa and with minimum wall thickness of 2.3 mm by making the bore of 15 mm dia. size on the Board's supply mains of 100 mm dia. using drilling bits or machines only and laying the pipe line at a depth not less than 0.45 mtrs. from the road surface, including providing 40 mm dia. "A" class GI pipe as casing over the MDPE pipe from the bore point and upto the entrance of the premises and removing the stone slab covering of the drain and dismantling the size stone masonry wherever necessary and making bore in the wall of the premises. On entering the premises, connection should be continued with 20 mm GI pipe by making "U" shape for the meter point below the ground level by making pit with sufficient space for the easy installation and removal of the water meter and providing vertical stand pipes on both sides of the mater.				
	Sun Name of work				
	Providing(UGD) works in ward NO.07	cum	200.00		
	Present Qty		**200.00**		
	Previous Qty		0.00		
	Total		200.00		
	BOQ Qty		200		
	Qty for payment		**200.00**	**3560.00**	**712000**

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

8	Construction of granular sub-base by providing close graded cushed stone aggregates of granite / trap / basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method For Grading-III Material				
	Sun Name of work				
	Providing(UGD) works in ward NO.07	cum	65.75		
	Present Qty		**65.75**		
	Previous Qty		0.00		
	Total		65.75		
	BOQ Qty		65.75		
	Qty for payment		**65.75**	**1571.00**	**103293.25**
9	Wet Mix Macadam, Providing.laying, spreading and compacting cushed stone aggregates of granite trap/basalt to wet mis macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of 4 mixed method of tipper to site, laying in uniform layers with paver in sub-base base course on well prepared surface and compacting with bratory roller to achieve the desired density complete as per specifications MORTH Specification No. 406				
	Sun Name of work				
	Providing(UGD) works in ward NO.07	cum	87.66		
	Present Qty		**87.66**		
	Previous Qty		0.00		
	Total		87.66		
	BOQ Qty		87.66		
	Qty for payment		**87.66**	**1668.00**	**146216.88**
10	Refilling pipeline and foundation with selected trenches available earth form trench excavation and foundation inlcuding 5 watering, consolidation in layers of 15cms., thickness including disposing off the surplus earth with all leads & lifts				
	Sun Name of work				
	Providing(UGD) works in ward NO.07	cum	682.79		
	Present Qty		**682.79**		
	Previous Qty		0.00		
	Total		682.79		
	BOQ Qty		682.79		
	Qty for payment		**682.79**	**62.00**	**42332.98**

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

12	Dismantling the damaged or collapsed manhole of 4" dia conical in shape and reconstructing the same with machine made wire 6 brick in CM (1:4) as per design and specification of new cut manhole 4" dia with old frame and cover excluding bed concrete 13.6				
	Sun Name of work				
	Providing(UGD) works in ward NO.07	cum	28.00		
	Present Qty		**28.00**		
	Previous Qty		0.00		
	Total		28.00		
	BOQ Qty		28		
	Qty for payment		**28.00**	**7358.00**	**206024**
13	manhole chambers" using sulphate resistant cement, conical in shape at top with C.C. 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15 m alround the chamber and brick masonry in C.M. 1:4 plaster with wire cut bricks of approved quality and CM plaster 1:3 proportion 12 mm thick inside and outside except for the conical surface outside where the thickness of plaster shall be 20 mm thick, with 1:6 slope in the concrete towards the central drain, finished smooth and fixing of pipes in CC 1:2:4 graded metal of 20 mm and down size including conveying to work spot supplying & fixing SFRC manhole frame and cover confirming to IS:12592 with latest amendments in CC 1:2:4, supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia, Grade Fe-415 steel bar (as per IS 1786) staggered at 30 cms apart as detailed in Technical Specifications and as directed,				
	Sun Name of work				
A	Providing(UGD) works in ward NO.07	cum	10.00		
	Present Qty		**10.00**		
	Previous Qty		0.00		
	Total		10.00		
	BOQ Qty		10		
	Qty for payment		**10.00**	**15704.00**	**157040**
	Sun Name of work				
B	Providing(UGD) works in ward NO.07	cum	10.00		
	Present Qty		**10.00**		
	Previous Qty		0.00		
	Total		10.00		
	BOQ Qty		10		
	Qty for payment		**10.00**	**21479.00**	**214790**
C	Providing(UGD) works in ward NO.07	cum	10.00		
	Present Qty		**10.00**		
	Previous Qty		0.00		
	Total		10.00		
	BOQ Qty		10		
	Qty for payment		**10.00**	**41745.00**	**417450**

AEE

Asst. Executive Engineer
Project Division
Shanka Zone
Bangalore

14	Disposong off the excess excavated earth of all type up to a distance mentioned Every Km beyond 5 KM 8 Considering 10 Km below by vehicle including loading unloading with all lifts labour HOM of machinery etc., complete				
	Sun Name of work				
	Providing(UGD) works in ward NO.07	cum	155.58		
	Present Qty		**155.58**		
	Previous Qty		0.00		
	Total		155.58		
	BOQ Qty		155.58		
	Qty for payment		**155.58**	**147.00**	**22869.6426**
15	Hire Charges for 2HP dewatering pump to bail out water at leaking pits inclusive of hire charges etc, complete Rs.1300/- per day of 8hours shift per day				
	Sun Name of work				
	Providing(UGD) works in ward NO.07	cum	10.00		
	Present Qty		**10.00**		
	Previous Qty		0.00		
	Total		10.00		
	BOQ Qty		10		
	Qty for payment		**10.00**	**1300.00**	**13000**
			SUB TOTAL		**2819538.52**
		Third party 2%			**56390.77**
		Add 12% GST			**7723.37**
		Add 4% KRIDL CHARGES			**112781.54**
		GRAND TOTAL			**2996434.2**

A.E.E.N.D
AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

BRUHAT BANGALORE MAHANAGARA PALIKE

Agency: **M/s KRIDL**

Name of Work: **Providing(UGD) works in ward NO.07**

Description of item	Unit	No	L	B	D	Qty
Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of masonry, cement concrete, wood work, steel work, including centering and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20						
Location	cum					
Shreeja Vinayaka Layout		1	17	0.9	0.3	5
Hanneya temple Sandhanagara		1	21	0.9	0.3	6
Opposite to Karanataka liquor mart		1	12	0.9	0.3	3
					Total	**13.50**
Cutting road surfaces for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classifications.Cutting Asphalt Road						
Shreeja Vinayaka Layout	cum	1	60.00	0.90	0.30	16
Hanneya temple Sandhanagara		1	80.00	0.90	0.30	22
Opposite to Karanataka liquor mart		1	90.00	0.90	0.30	24
Shreeja Layout		1	40.00	0.90	0.30	11
100ft Layout		1	227.00	0.90	0.30	61
						134.19
Deduction for manholes	(-)	30	1.50	0.90	0.30	12
						122.04
					Ltd to	**117.99**
EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical // & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring,strutting, dewatering, etc. IN ALL KINDS OF SOIL MIXED WITH BOULDERS of 30 cms size, etc. for: Pipes of all dia. for depth upto 2.0 M in all types of soils						
Shreeja Vinayaka Layout	cum	1	60	0.90	1.50	81
Hanneya temple Sandhanagara		1	80	0.90	1.50	108

	Opposite to Karanataka liquor mart		1	90	0.90	1.50	122
	Hoysala layout		1	40	0.90	1.50	54
	GKVK Layout		1	227	0.90	1.50	306
			1	17	0.9	1.90	29
			1	21	0.9	1.90	36
			1	12	0.9	1.90	21
	Deduct manhole qty		30	1.5	0.9	1.50	-61
	Deduct Asphalt Qty						122
							818
					Qty Ltd to		**793.44**
4	Supplying, lowering, laying, jointing, testing and commissioning of Glazed Stone Ware Pipes of following dia, conforming to IS 651:1992,IS 4127 with latest amendments, including conveying to work site, caulking with hemp dipped in tar and jointing with CM 1:1.5 using OPC, perfect linking and curing for 10 days and testing with water etc. with all lead, lifts and as per Technical Specifications. The cost to include the cost of all jointing materials, necessary survey works for laying of sewer lines etc. complete. The contractor will make own arrangements for procuring water for testing.						
	6th cross Vinayaka Layout.		1	60			60
	Anjeneeya temple Amruthanagara		1	80			80
	Opposite to Karanataka liquor mart		1	90			90
	Hoysala layout		1	40			40
	GKVK Layout		1	227			227
			1	17			17
			1	21			21
			1	12			12
	Deduc for maholes		-30	1.50			-45
							502
					Qty Ltd to		**487**
5	Labour charges for laying and jointing glazed stone ware pipes of 0.6m length and of specified dia., of tested quality conforming to IS 651 of 1965 including caulking with hemp yarn, jointing with CM 1:2 and testing with water etc. complete for: (Rate to include cost of jointing materials and transportation of pipes from store work site but excluding the cost of earth work) - Glazed Stone Ware pipe of 230 mm dia						
	6th cross Vinayaka Layout.		1	60			60
	Anjeneeya temple Amruthanagara		1	80			80
	Opposite to Karanataka liquor mart		1	90			90
	Hoysala layout		1	40			40
	GKVK Layout		1	227			227
							0
			1	17			17

		1	21			21
		1	12			12
		0	0			0
Deduc for maholes		-30	1.5			-45
						502
				Qty Ltd to		**487**

6	Supplying lowering laying, jointing, testing and commissioning of following diameters glazed stone ware pipes, conforming to IS 651:1992, IS 4127 with latest amendments, of sizes including conveying to worksite and caulking with hemp dipped in tar and jointing with CM 1:1.5 using ordinary port land cement confirming to IS 12330, perfect linking and curing for 10 days and testing with water, with all lead and lifts, technical specifications, including cost of jointing materials, and all necessary survey works for laying of sewers etc.., complete (contractor will make his own arrangements for procuring water for testing). 230mm dia						
		Rmt	1	500			500
							500
					Qty Ltd to		**487**

7	the other utilities and supplying and laying 25 mm OD MDPE pipe (PE80) manufactured in accordance with ISO 4427 - 1996 with minimum required strength of 8 Mpa, hydraulic design stress of 6.3 Mpa and with minimum wall thickness of 2.3 mm by making the bore of 15 mm dia. size on the Board's supply mains of 100 mm dia. using drilling bits or machines only and laying the pipe line at a depth not less than 0.45 mtrs. from the road surface, including providing 40 mm dia. "A" class GI pipe as casing over the MDPE pipe from the bore point and upto the entrance of the premises and removing the stone slab covering of the drain and dismantling the size stone masonry wherever necessary and making bore in the wall of the premises. On entering the premises, connection should be continued with 20 mm GI pipe by making "U" shape for the meter point below the ground level by making pit with sufficient space for the easy installation and removal of the water meter and providing vertical stand pipes on both sides of the mater. The connection should be secured firmly on the Board's main pipe with SS / Brass . ferrule of size 1/2" x 3/4" and fixing the union joint and gate valve / stop cock before the meter point and a reflex valve / non-return valve should be fixed on the connection after the meter point. (All these fixtures should be of standard quality conforming to IS). The compression fittings for MDPE pipes conforming to ISO 14236 and its latest versions. The excavated trench should be refilled with soft selected earth and the dismantled masonry of the drain should be re-constructed with available size stones in CM 1:8 and providing coping in CC 1:3:6 wherever required and the stone slab covering should be refixed in position with pointing in CM 1:3 and also the bored wall of the premises should be re-done						
	6th cross Vinayaka Layout.	Nos	50				50
	Anjeneeya temple Amruthanagara		80				80
	Opposite to Karanataka liquor mart		25				25
	Hoysala layout		40				40

	GKVK Layout		5				5
							200
8	Construction of granular sub-base by providing close graded cushed stone aggregates of granite / trap / basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method For Grading-II Material						
	6th cross Vinayaka Layout.	cum	1	60	0.90	0.15	8
	Anjeneeya temple Amruthanagara		1	80	0.90	0.15	11
	Opposite to Karanataka liquor mart		1	90	0.90	0.15	12
	Hoysala layout		1	40	0.90	0.15	5
	GKVK Layout		1	227	0.90	0.15	31
			1	17	0.90	0.15	2
			1	21	0.90	0.15	3
			-30	1.5	0.90	0.15	-6
							66.15
					Qty Ltd to		**65.75**
9	Wet Mix Macadam, Providing.laying, spreading and compacting cushed stone aggregates of granite trap/basalt to wet mis macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of 4 mixed method of tipper to site, laying in uniform layers with paver in sub-base base course on well prepared surface and compacting with bratory roller to achieve the desired density complete as per specifications MORTH Specification No. 406						
	6th cross Vinayaka Layout.	cum	1	60	0.90	0.20	11
	Anjeneeya temple Amruthanagara		1	80	0.90	0.20	14
	Opposite to Karanataka liquor mart		1	90	0.90	0.20	16
	Hoysala layout		1	40	0.90	0.20	7
	GKVK Layout		1	227	0.90	0.20	41
			1	17	0.90	0.20	3
			1	21	0.90	0.20	4
			-30	1.5	0.90	0.20	-8
							88.20
					Qty Ltd		**87.66**
10	Refilling pipeline and foundation with selected trenches available earth form trench excavation and foundation inlcuding 5 watering, consolidation in layers of 15cms., thickness including disposing off the surplus earth with all leads & lifts						
	Qty vide item no.02						793.44
	Ded pipe volume 3.142*0.3*0.3*1565/4						-110.65
							682.79

12	Dismantling the damaged or collapsed manhole of 4" dia conical in shape and reconstructing the same with machine made wire 6 brick in CM (1:4) as per design and specification of new cut manhole 4" dia with old frame and cover excluding bed concrete 13.6						
	Manhole raising					28	28.00
							28.00
13	Providing and constructing "wire cut brick manhole chambers" using sulphate resistant cement, conical in shape at top with C.C. 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15 m alround the chamber and brick masonry in C.M. 1:4 plaster with wire cut bricks of approved quality and CM plaster 1:3 proportion 12 mm thick inside and outside except for the conical surface outside where the thickness of plaster shall be 20 mm thick, with 1:6 slope in the concrete towards the central drain, finished smooth and fixing of pipes in CC 1:2:4 graded metal of 20 mm and down size including conveying to work spot supplying & fixing SFRC manhole frame and cover confirming to IS:12592 with latest amendments in CC 1:2:4, supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia, Grade Fe-415 steel bar (as per IS 1786) staggered at 30 cms apart as detailed in Technical Specifications and as directed, watering, curring, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting,						
	1.2 m diameter manholes						
	For 1.0 m depth	Vinayaka layout				5	
	For 1.5 m depth	Anjeneya temple Amruthanagara				5	
		Opposite to Karanataka liquor mart				10	
	For 3 m depth	Gkvk Layout				10	
						30	
14	Disposong off the excess excavated earth of all type up to a distance mentioned Every Km beyond 5 KM 8 Considering 10 Km below by vehicle including loading unloading with all lifts labour HOM of machinery etc., complete						
	Qty Vide Item No.01					117.99	117.99
			0.785	0.3	0.3	532	37.59
							155.58
15	Hire Charges for 2HP dewatering pump to bail out water at leaking pits inclusive of hire charges etc, complete Rs.1300/- per day of 8hours shift per day						
			Days			10.00	10.00

Checked. 10/7/19

Assistant Engineer ward No.07

Assistant Executive Engineer

Executive Engineer

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore